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25X1
jfc ph. X

September 22, 1958

SECRET - Registered Mail
Return Receipt

2188

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Dear Sir:

Per recent request of your technical monitor, we are submitting our proposal for the fabrication of fifteen (15) TEM units. These units will be the same as the prototype now in your possession.

We propose to perform this work on a cost-plus-fixed-fee, one year contract. As shown in attached cost estimate sheet, we expect to incur expenses in the amount of \$31,440.42.

Very truly yours,

Rec'd 8/30
9/29

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JUST	22	NEXT REV	2010	AUTH:	MR 10-2

RGS/cr

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U. S. C., SECTIONS 773 AND 774, THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

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COST ESTIMATE

15 TEM DEVICES

Purchase parts and materials.....	<input type="text"/>	25X1
Project Engineering Labor, 700 hours		25X1
Technician Labor 600 hours		
Model Makers, 2000 hours		
Assembly-Test Labor, 1000 hours		
Burden <input type="text"/>	25X1
G & A <input type="text"/>	25X1
Fixed Fee - <input type="text"/>	25X1
		\$ 31,440.42

RG8:jl

9/17/58

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PROPOSALTIME EVENT MARKER

Work Statement: Fabricate and test fifteen prototype units based on designs of initial prototype unit, using techniques developed during manufacture, assembly and test of this unit.

Operational Sequence: A signal from an external source operates a stepping switch which moves through 24 contact positions, presenting at the output a serial binary coded signal representing the time in minutes since the device was started. The stepping switch is driven by a transistorized multivibrator circuit operating a solenoid driven ratchet. The binary code is picked up by the stepping switch from three calendar discs which are solenoid operated, and receive their time base from a watch. A detailed description of operation is given in Appendix I.

Specification: Running Time: 60 Day Calendar Run 1440 TEM readouts.

Power Source: External battery supply of 5.5 to 6.5 volts. Manually wound mainspring.

Initiation of Readout: Negative 6 volts - minimum duration 40 milliseconds and maximum duration 2 seconds.

Excitation for readout: 1000 cycles A.C., 6 volts peak to peak, or 6 volts D.C. (These are recommended, but other frequencies and voltages can be used).

<u>Environment</u>	<u>Storage</u>	<u>Operating</u>
Temperature	-40° +70°C	-30° +70°C
Humidity	100% R.H. 4 hours	100% R.H.

Reports: Bi-monthly reports will be written covering the progress of the work. A final report summarizing the work, relating conclusions and recommendations will also be written. Five copies of each report will be submitted.

Operating instructions: Fifteen sets of operating instructions will be submitted.

R-D-76
T.C.-C.

IN-1

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Work Schedule: We propose to build the test sixteen prototype units and to furnish a final engineering report, within nine months of the date of the contract.

We plan to build the first model in three months, but there will be considerable fabrication of parts for the fifteen units during this same period so that the effort will be divided over the nine months period, and not concentrated during the last six months.

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9/22/58

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